

DEVAL L. PATRICK GOVERNOR TIMOTHY P. MURRAY LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD SECRETARY

JOHN AUERBACH COMMISSIONER The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute

305 South Street, Jamaica Plain, MA 02130

01/24/2012

Larry Bates
Assistant District Attorney, Suffolk County

Dear ADA Bates,

Enclosed is the information you requested in regards to Commonwealth vs. Included are copies of the following:

- 1 Curriculum Vitae for Annie Dookhan and Daniel Renczkowski.
- 2. Drug Analysis Laboratory Receipt.
- 3. Control Cards with analytical results for samples #
- 4. Analysis sheets with custodial chemist's hand notations and test results.
- 5. GC/Mass Spectral analytical data for samples #

Ann Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Daniel Renezkowski was analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Annie Dookhan

Chemist

Sincerely,

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6622

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry

University of Massachusetts, Boston, Ma, Bachelor of Science

Major: Biochemistry Minor: Economics

Experience:

2003 - present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Writing of the Standard Operating Procedures (SOPs) and Protocols.
- *Responsible for the Quality Control and Quality Assurance of analytical instruments, reagents and controls/standards.
- *Maintenance and repairs of analytical instruments.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court.
- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health.
- *Notary Public.

2001 - 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MBL Quality Control and Quality Assurance Department for the Food and Drug Administration.
- *Method Development for creating new techniques for the OC Dept. and FDA.
- *Writing, revising and reviewing the Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Courses:

Department of Justice - Forensics Professionals

Introduction to Forensic Drug Chemistry

Chemical Spot Test and Mechanism for Illicit Drugs

Forensic Mass Spectrometry

Forensic Science 101: An Introduction

Fundamentals of Forensic Questioned Documents

Perspectives in Expert Testimony

Evidence Analysis

Ethics in Forensic Science

Transition to Leadership

Fundamentals of Forensic Toxicology

Additional Trainings:

Good Laboratory Practice/Good Manufacturing Practice (GLP/GMP) training with Massachusetts Biologic Laboratory.

Quality Control/Quality Assurance (QC/QA) training according to FDA Codes and Regulations,

Gas Chromatography (GC) and Gas Chromatography/Mass Spectrometry (GC/MS) trainings with Agilent Technologies and Restek.

High Power Liquid Chromatography (HPLC) and HPLC/MS/MS trainings with Waters Cooperation.

Fourier Transform Infrared Spectroscopy (FTIR) training with Spectros and Spectum One.

Ultraviolet-Visible Spectroscopy (UV-Vis) training with Agilent Technologies and Beckman.

Total Organic Carbon Analyzer (TOC) training with MBL and Sievers.

Associations:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Daniel Renczkowski

Education

Degree:

Bachelors of Science in Forensic Chemistry,

May 2005 from Buffalo State College

GPA: 3.84, Dean's List, Honor's Recognition American Chemical Society Undergraduate Award

Phi Lambda Upsilon Membership

Related Coursework: Analytical Chemistry

Organic Chemistry I and II

Biochemistry

Chemistry of Criminalistics

Anatomy

Physical Chemistry

Instrumental Chemistry Forensics Laboratory

Physical Evidence

Physiology

Employment

Massachusetts Department of Public Health Drug Analysis Laboratory Chemist I (October 2005 – March 2008) Chemist II (March 2008 – present)

- -Successfully completed an eight week training course in the analysis of drugs conducted by senior staff
- -Successfully completed GC/MS training program
- -Responsible for the identification of substances to determine violation of the Controlled Substances Act of the Massachusetts General Laws
- -Responsible for maintenance and repairs of analytical instruments
- -Responsible for quality control of analytical instruments and standards

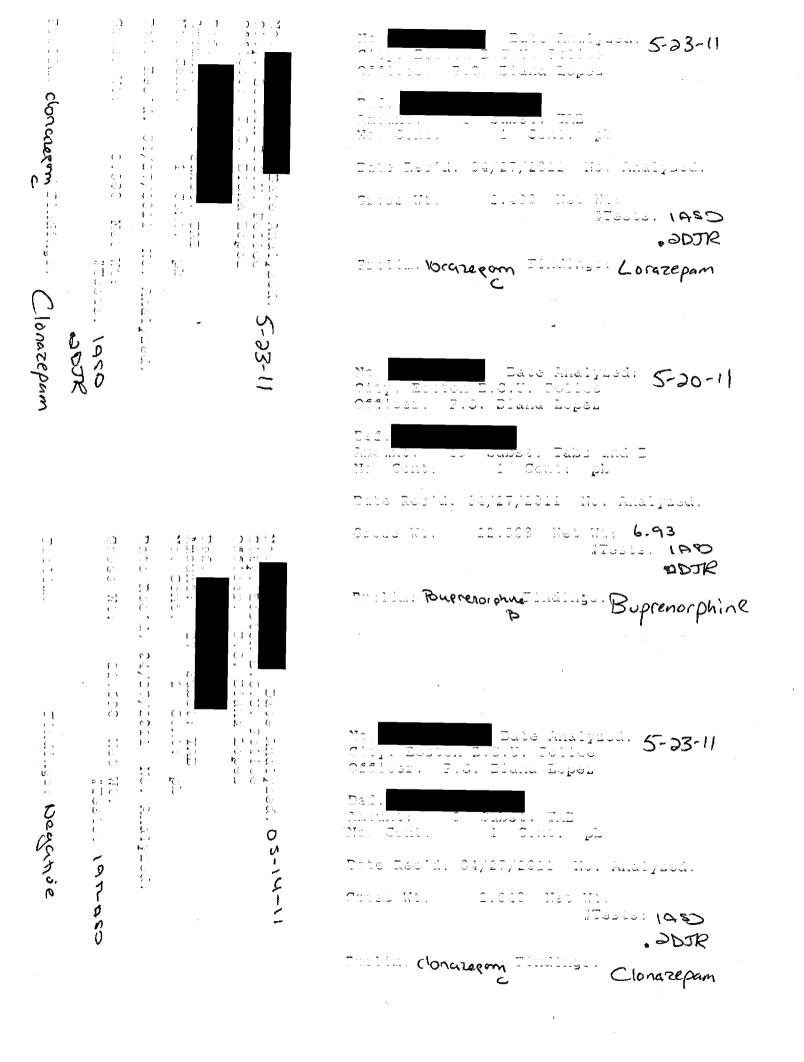
Related Experience

Niagara County Forensics Laboratory Forensic Internship, January 2005

- -Conducted research on the presumptive testing of saliva
- -Conducted research on the identification and detection of lubricants
- -Observed all aspects of the laboratory including drug analysis, firearms comparison, trace evidence, arson investigation, toxicology, and serology
- -Daily use of FTIR microscope and DuraSamplerII
- -Familiarized with GC/MS programs

DRUG RECEIPT	PAGE			
Name & Rank of Arresting Officer \$\frac{1}{2} \frac{1}{2}	Northanes		10# BCHW	744
DEFENDANT'S NAME	ADDF	RESS	CITY	STATE
			Durchester	MA
			LAB US	E ONLY
DESCRIPTION OF ITEMS SUBMITT	ED	GROSS QUANTITY	GROSS WEIGHT	ANALYSIS NUMBER
-orgzepan ING		1 9:11	2.43a	
Suboxone & MG		cpills 3 halves	32.56	
Clanazzpan		5 pills	2.84g	
claratepan		C pills	3,00	
Aspain Delayed Pele	450	27 pills	21.5%	į
Class A Heroin		- sin bays	334	<u>4</u>
Class & Cocaine		2 Sn bogs	3.33	
-		J		

To be completed by ECU personnel only		and the section of th	
Name and Rank of Submitting Officer	Topy	ID#	9370
Received by		Date	4-27-11
		ECU Control #_	
BPD Form 0038-BIS-0907 (prev. 1753)			e ಸಾಧಿಕ್ಷಾಡು Folk_OIG_I



DRUG POWDER ANALYSIS FORM

SAMPLE# AGENCY &	OBJON ANALYST POT
No. of samples tested:	Evidence Wt.
PHYSICAL DESCRIPTION:	Gross Wt():
1 Howite word + as her	Gross Wt ():
17.60	Pkg. Wt:
	Net Wt: <u>0・131つ</u>
(mylon)	
1 abel -> 100azepm	
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests
Cobalt Thiocyanate <u>(</u>)	Gold Chloride
Marquis	TLTA ()
Froehde's	OTHER TESTS
Mecke's	Musnanc AID
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS Lorge pom	RESULTS TOPARERON.
DATE S-1-(-V)	OPERATOR D3 C
	DATE

Drug Information

DRUG NAME: LORAZEPAM

INGREDIENTS: LORAZEPAM -- 1 MG

Color: White to Off-White, white

Shape: Circle

Imprint: MYLAN 457 The tablet is debossed with MYLAN above the score and 457 below the score on one side.

Form: Oral Tablet

Available-Container-Size: Bottle of 1000, Dispenser Pack of 300, Strip of 300, Bottle of 100, Strip of 100, Strip of

1, Bottle of 500, Strip of 25

AAPCC Code: 007000 -

Benzodiazepines

NDC: 51079-386-19 0378-2457-01

0378-2457-10

0378-0457-10

51079-386-24

51079-386-56

0378-0457-01

51079-386-20

51079-386-01

0378-2457-05

51079-386-30

51079-386-21

0378-0457-05

Excipients: Sodium Steary

Fumarate ; Lactose

(Monohydrate); Cellulose,

Microcrystalline; Polacrilin Potassium

Regulatory Status: Schedule IV

Availability: United States

Product ID 5150787

Contact: Mylan Pharmaceuticals

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DRUG POWDER ANALYSIS FORM

SAMPLE # AGENCY	BOSTON ANALYST ASO
No. of samples tested:	Evidence Wt.
PHYSICAL DESCRIPTION:	Gross Wt():
19 0,000 horages	(Gross Wt ():
trover to	
(p)	Net Wt: 6.9346
atso ec	•
(mg)	
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests
Cobalt Thiocyanate ()	Gold Chloride
Marquis	TŁTA ()
Froehde's	OTHER TESTS
Mecke's	Mutomarc A 100
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS Queen or onio	RESULTS Bupresurghine
DATE S-1CI-II	MS OPERATOR D3R
	DATE 5-20-11

Drug Information

DRUG NAME: SUBOXONE TABLET

INGREDIENTS: BUPRENORPHINE - 8 MG

NALOXONE -- 2 MG

Color: orange Shape: Six-sided

Imprint: N8 Sword Logo
Form: Sublingual Tablet

Available-Container-Size: Bottle of 30

AAPCC Code: 200625 -

Buprenorphine

NDC: 12496-1306-02

Regulatory Status: Schedule III

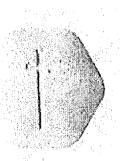
Availability: United States

Product ID 6370996

Contact: Reckitt Benckiser

Pharmaceuticals





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DRUG POWDER ANALYSIS FORM

SAMPLE #	AGENCY 808400 ANALYST 830
No. of samples tested:	Evidence Wt.
PHYSICAL DESCRIPTION:	Gross Wt():
5 given rand	Gross Wt ():
·	ېک Pkg. Wt:
\mathcal{E}	Net Wt: 0.8587
PRELIMINARY TESTS Spot Tests	Microcrystalline Tests
Cobalt	Gold
Thiocyanate ()	Chloride
Marquis	TLTA ()
Froehde's	OTHER TESTS
Mecke's	Myonder AID
PRELIMINARY TEST RESULTS	GC/MS CONFIRMATORY TEST
RESULTS Clongrepm	RESULTS Clongue m
DATE 3-14-11	MS OPERATOR <u>り</u> って
	DATE 5-23-4

Drug Information

DRUG NAME: CLONAZEPAM

INGREDIENTS: CLONAZEPAM -- 1 MG

Color: Light Green

Shape: Circle

Imprint: M The tablet is debossed with M on one side and C above the score and 14 below the score on the other

side., C 14

Form: Oral Tablet

Available-Container-Size: Strip of 100, Bottle of 100, Strip of 300, Bottle

of 1000, Strip of 1, Bottle of 90

AAPCC Code: 007000 -Benzodiazepines NDC: 0378-1912-77 51079-882-20 51079-882-21 0378-1912-01 51079-882-56 0378-1912-10 51079-882-01 51079-882-30

Excipients: Lactose

(Anhydrous); Silicon Dioxide,

Colloidal; Magnesium Stearate; Cellulose, Microcrystalline; Starch,

Pregelatinized; Sodium Lauryl Sulfate; D&C Yellow No. 10; FD&C

Blue No. 1 Lake

Regulatory Status: Schedule IV

Availability: United States

Product ID 5726398

Contact: Mylan Pharmaceuticals

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DRUG POWDER ANALYSIS FORM

SAMPLE#	AGENCY_	Bosten	ANALYST	<i>6</i> 20
No. of samples tested:	-		Evidence Wt.	<u> </u>
PHYSICAL DESCRIPTION:			Gross Wt():_	
p drow vou	یر سردری م		Gross Wt():_	
	(- 62		Pkg. Wt:_	
TEVA	833	· .	Net Wt:	1.0155
				·
PRELIMINARY TESTS Spot Tests		-	Microcrystalline Tes	<u>ts</u>
Cobalt Thiocyanate ()		Ct	Gold nloride	
Marquis			TLTA ()	-
Froehde's	•		OTHER TESTS	•
Mecke's		m	nomalic AX	<u>D</u>
		. •		
PRELIMINARY TEST RESULTS	***************************************	GC/	MS CONFIRMATORY	TEST
RESULTS Clogaregon		RES	ULTS Clonaus	<u></u>
DATE		OPERA	MS TOR <u>032</u>	·
			DATE 5-23-11	

Drug Information

DRUG NAME: CLONAZEPAM

INGREDIENTS: CLONAZEPAM - 1 MG

Color: Green Shape: Circle

Imprint: 833 This tablet is debossed with 833 above the scored line and TEVA on the unscored side, TEVA

Form: Oral Tablet

Available-Container-Size: Bottle of 100, Bottle of 1000, Bottle of 500

AAPCC Code: 007000 - Benzodiazepines

NDC: 00093-0833-93 00093-0833-10 00093-0833-05 00093-0833-01

Excipients: Lactose (Monohydrate); Magnesium Stearate; Cellulose,

Microcrystalline; Povidone; Water, Purified; Starch, Corn; D&C Yellow No. 10 Aluminum Lake; FD&C Blue No. 1

Aluminum Lake

Regulatory Status: Schedule IV

Availability: United States

Product ID 7150694

Contact: Teva Pharmaceuticals

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DRUG POWDER ANALYSIS FORM

SAMPLE#	AGENCY	BOSKN	ANALYST	064
No. of samples tested:	• .		Evidence Wt.	
PHYSICAL DESCRIPTION:			Gross Wt():	
27 yellow	never =	Herblest	Gross Wt():	
27 yellow	7186		Pkg. Wt:	
			Net Wt:	6.0330
P	121			
PRELIMINARY TESTS Spot Tests	-		Microcrystalline Tes	<u>sts</u>
Cobalt Thiocyanate ()			Gold Chloride	
Marquis			TLTA ()	
Froehde's			OTHER TESTS	,
Mecke's		<u></u>	honde AD	≠
PRELIMINARY TEST RESULTS		G	C/MS CONFIRMATORY	' TEST
RESULTS ASPN: (07	رح)	RE	SULTS ·	· · · · · · · · · · · · · · · · · · ·
DATE 5-14-11		OPE	MS RATOR	
			DATE	

Drug Information

DRUG NAME: ASPIRIN - LOW DOSE **INGREDIENTS:** ASPIRIN -- 81 MG

Color: Yellow Shape: Circle

Imprint: AP The imprint is a lowercase

p inside an inverted V., 121

Form: Oral Tablet, Enteric Coated

Available-Container-Size: Bottle of

1000, Bottle of 120

AAPCC Code: 041701 - Acetylsalicylic

Acid Alone, Adult Formulations

NDC: 0603-0025-32 0603-0026-32 0603-0026-22

UPC: 06030-02632 06030-02622

Excipients:

Hypromellose; Hypromellose

Phthalate ; Iron Oxide (Ochre) ; Cellulose,

Microcrystalline; Mineral Oil; PEG-400; Polysorbate 80; Titanium

Dioxide; Acetylated Monoglyceride; Lactose (Anhydrous); Silicon Dioxide, Colloidal; Croscarmellose Sodium; D&C Yellow No. 10

Regulatory Status: OTC
Availability: United States

Product ID 6049210

Contact: Qualitest Pharmaceuticals

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Area Percent / Library Search Report

Information from Data File:

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Operator : DJR

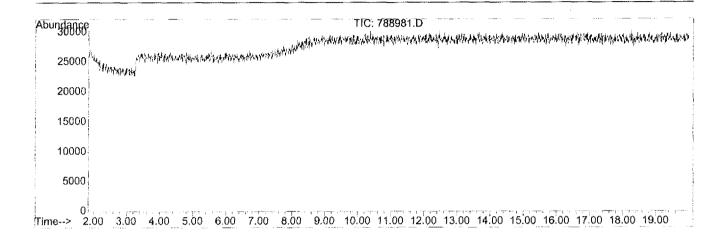
Date Acquired : 21 May 2011 7:29

Sample Name : BLANK

Submitted by

Vial Number : 2
AcquisitionMeth: GENSCN
Integrator : RTE





Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

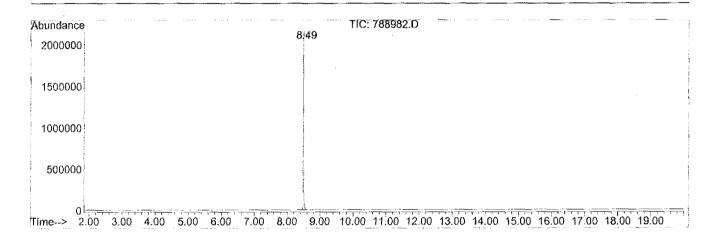
File Name : D:\SYSTEM4\05_20_11\788982.D Operator : DJR

Date Acquired : 21 May 2011

Sample Name : LORAZEPAM STD

Submitted by

Vial Number : 82 AcquisitionMeth: GENSCN Integrator : RTE



Ret. Time	Area	Area %	Ratio %
8.490	2375800	100.00	100.00

File Name : D:\SYSTEM4\05 20 11\788982.D

Operator : DJR

Date Acquired : 21 May 2011 7:53

Sample Name : LORAZEPAM STD

Submitted by

PK#

Vial Number : 82 AcquisitionMeth: GENSCN Integrator : RTE

RT

Search Libraries: C:\DATABASE\SLI.L

Minimum Quality: 90
Minimum Quality: 90

CAS#

C:\DATABASE\PMW_TOX2.L

C:\DATABASE\NIST98.L

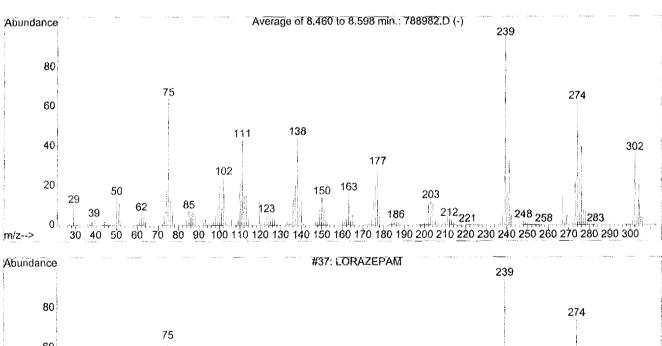
1 8.49 C:\DATABASE\SLI.L

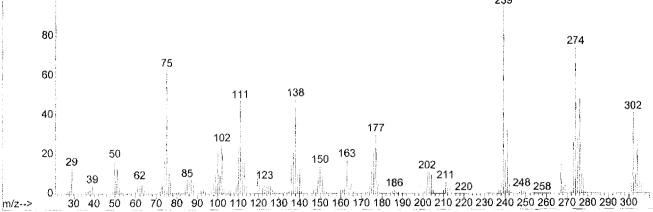
LORAZEPAM

Library/ID

000846-49-1 95

Qual





788982.D

Tue Jan 24 14:05:38 2012

Area Percent / Library Search Report

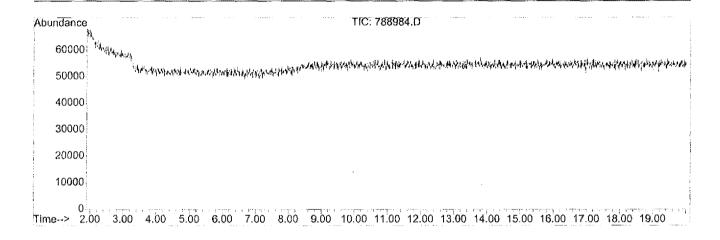
Information from Data File:

File Name : D:\SYSTEM4\05 20 11\788984.D

Operator : DJR

Date Acquired : 21 May 2011 8:41

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: WGENSCN
Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

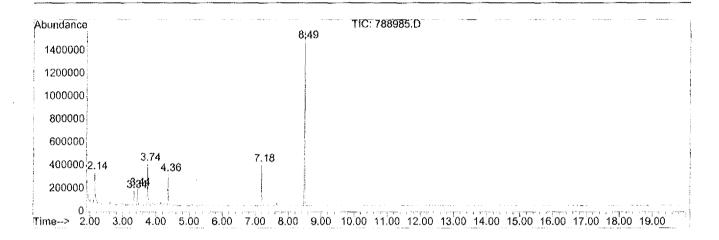
File Name : D:\SYSTEM4\05_20_11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name :

Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
2.138	591084	15.00	35.56	
3.340	291916	7.41	17.56	
3.436	192529	4.89	11.58	
3.741	481998	12.23	29.00	
4.363	306468	7.78	18.44	
7.181	415117	10.53	24.98	
8.491	1662070	42.17	100.00	

File Name : D:\SYSTEM4\05 20 11\788985.D

Operator : DJR

Date Acquired 21 May 2011 9:05

Sample Name

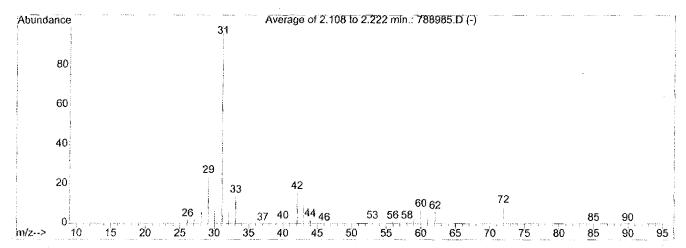
Submitted by ASD Vial Number 85 AcquisitionMeth: WGENSCN : RTE Integrator

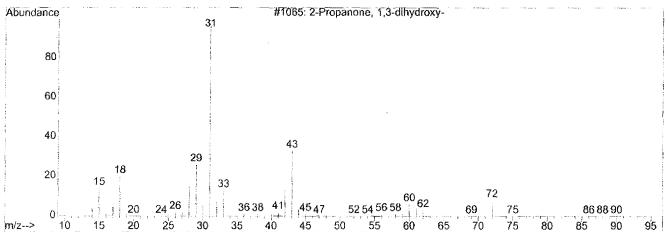
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90 Minimum Quality: 90

C:\DATABASE\PMW TOX2.L

C:\DATABASE\NIST98.L

PK# RTLibrary/ID CAS# Qual 1 2.14 C:\DATABASE\NIST98.L 2-Propanone, 1,3-dihydroxy-78 000096-26-4 Acetaldehyde, hydroxy-000141-46-8 9 1-Propanol 000071-23-8 9





788985.D

Tue Jan 24 14:05:49 2012

File Name : D:\SYSTEM4\05 20 11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name :

Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE

Search Libraries:

C:\DATABASE\SLI.L

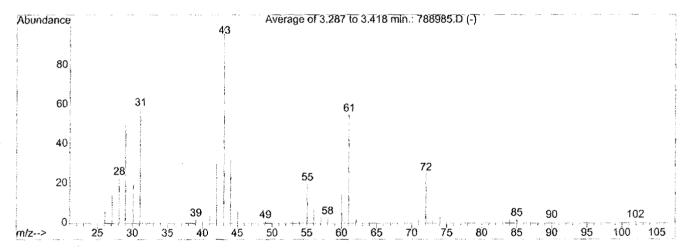
Minimum Quality: 90

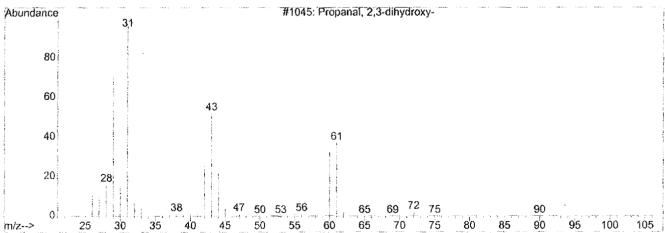
C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
2	3.34	C:\DATABASE\NIST98.L Propanal, 2,3-dihydroxy- Glycerin 3(2H)-Furanone, dihydro-2-methyl-	000367-47-5 000056-81-5 003188-00-9	47 33 32





788985.D

Tue Jan 24 14:05:50 2012

File Name : D:\SYSTEM4\05 20 11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name :

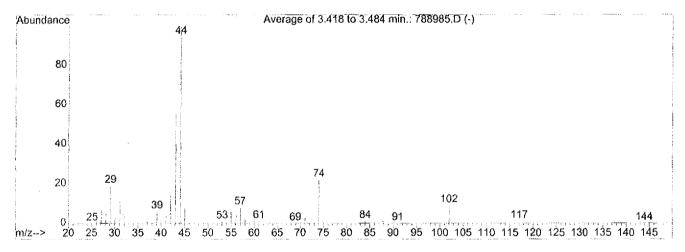
Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE

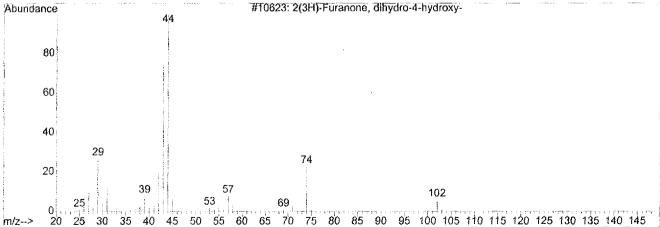
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
 3	3.44	C:\DATABASE\NIST98.L		
		2(3H)-Furanone, dihydro-4-hydroxy-	005469-16-9	90
		1-Propanol, 2-amino-, (S)-	002749-11-3	40
		1-Propanol, 2-amino-	000078-91-1	36





788985.D

Tue Jan 24 14:05:50 2012

File Name : D:\SYSTEM4\05 20 11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name :

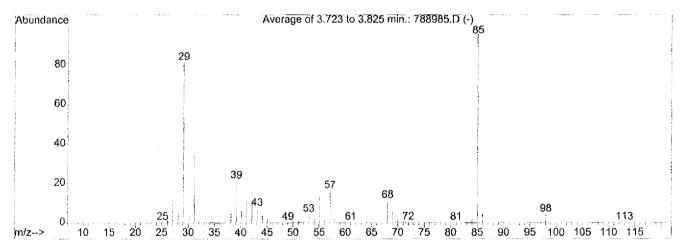
Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE

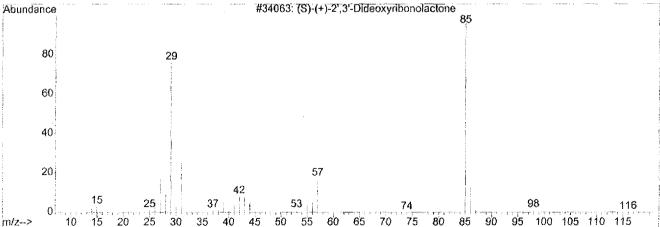
Search Libraries: C:\DATABASE\SLI.L

MI.L Minimum Quality: 90 W TOX2.L Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
 4	3.74	C:\DATABASE\NIST98.L (S)-(+)-2',3'-Dideoxyribonolactone		40
		5-Oxotetrahydrofuran-2-carboxylic a	004344-84-/	39
		Thiazole	000288-47-1	39





788985.D

Tue Jan 24 14:05:51 2012

File Name : D:\SYSTEM4\05 20 11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name

Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE

Search Libraries:

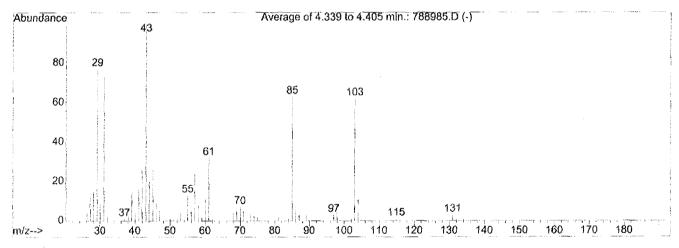
C:\DATABASE\SLI.L

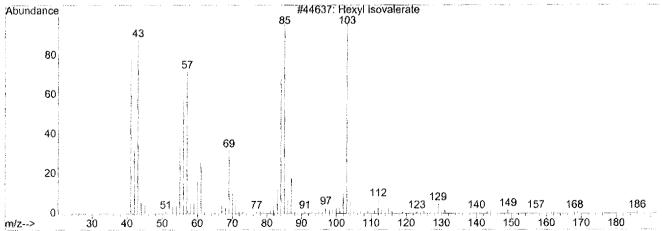
Minimum Quality: 90 Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
5	4.36	C:\DATABASE\NIST98.L Hexyl isovalerate Isosorbide Dinitrate Ethylene glycol diglycidyl ether	010632-13-0 000087-33-2 002224-15-9	40 38 32





788985.D

Tue Jan 24 14:05:51 2012

File Name : D:\SYSTEM4\05 20 11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name :

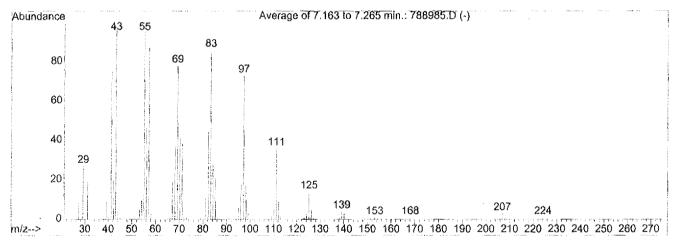
Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE

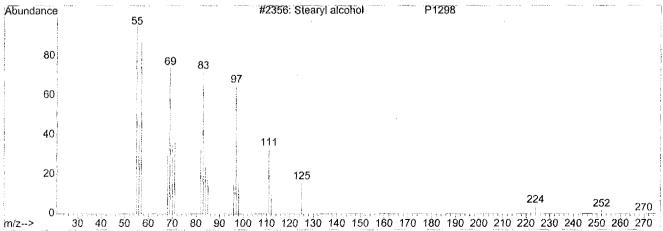
Search Libraries: C:\DATABASE\SLI.L Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
6	7.18	C:\DATABASE\PMW_TOX2.L Stearyl alcohol	000112-92-5	91
		Cyclohexadecane Cyclotetradecane	000295-65-8 000295-17-0	90 64





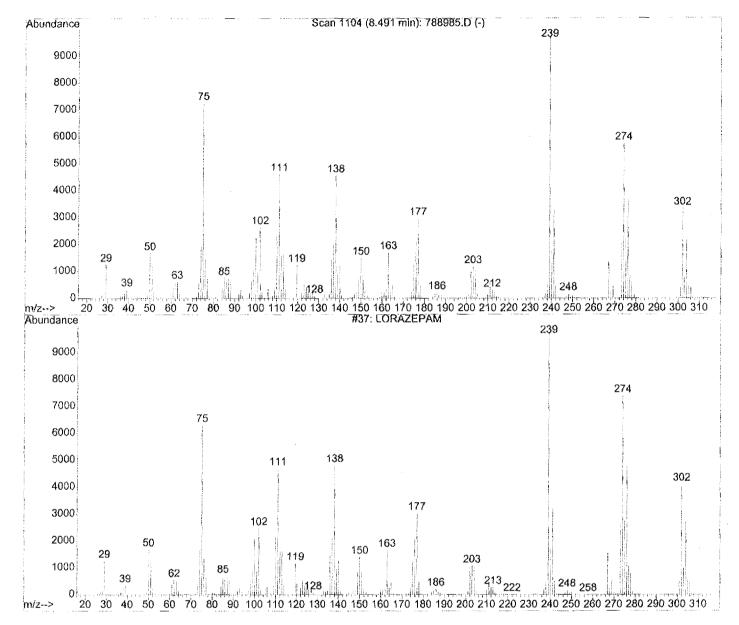
788985.D

Tue Jan 24 14:05:52 2012

Library Searched : C:\DATABASE\SLI.L

Quality : 95

ID : LORAZEPAM



File Name : D:\SYSTEM4\05 20 11\788985.D

Operator : DJR

Date Acquired : 21 May 2011 9:05

Sample Name

Submitted by : ASD
Vial Number : 85
AcquisitionMeth: WGENSCN
Integrator : RTE

Search Libraries:

C:\DATABASE\SLI.L

Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L

C:\DATABASE\NIST98.L

Minimum Quality: 90

PK# RT Library/ID

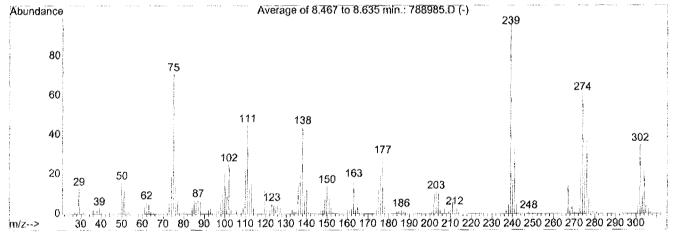
CAS#

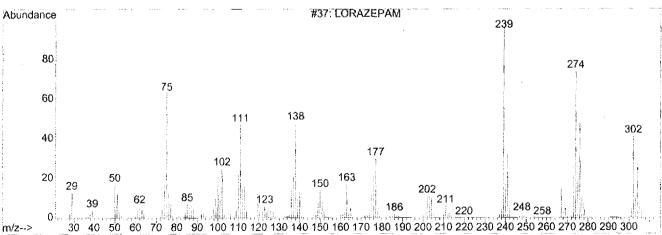
Qual

7 8.49 C:\DATABASE\SLI.L LORAZEPAM

000846-49-1

95





788985.D

Tue Jan 24 14:05:52 2012

Page 8

File Name : D:\SYSTEM4\05 20 11\788987.D

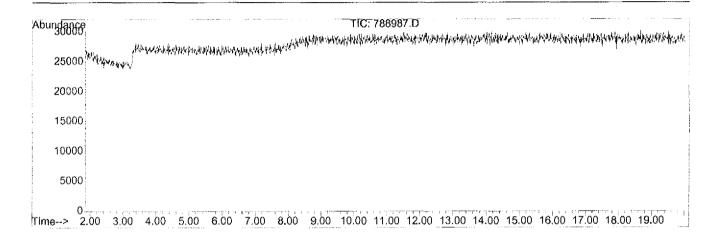
Operator : DJR

Date Acquired : 21 May 2011 9:52

Sample Name : BLANK

Submitted by

Vial Number : 2 AcquisitionMeth: GENSCN Integrator : RTE



Ret. Time Area Area % Ratio %

^{***}NO INTEGRATED PEAKS***

Area Percent / Library Search Report

Information from Data File:

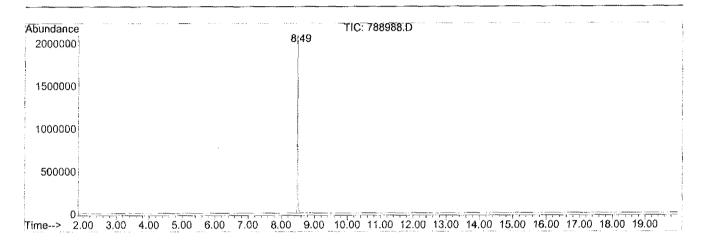
File Name : D:\SYSTEM4\05_20_11\788988.D Operator : DJR

Date Acquired : 21 May 2011 10:16

Sample Name : LORAZEPAM STD

Submitted by

Vial Number 82 AcquisitionMeth: GENSCN : RTE Integrator



Ret. Time	Area	Area %	Ratio %
8.490	2185515	100.00	100.00

File Name : D:\SYSTEM4\05 20 11\788988.D

Operator : DJR

Date Acquired : 21 May 2011 10:16

Sample Name : LORAZEPAM STD

Submitted by

Vial Number 82 AcquisitionMeth: GENSCN Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

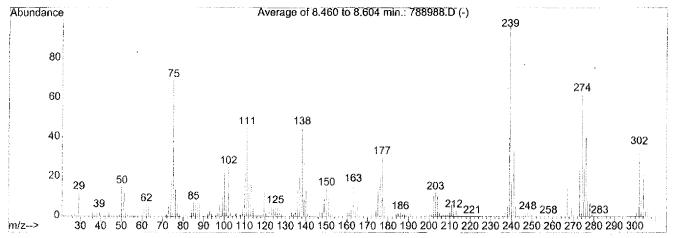
Minimum Quality: 90 C:\DATABASE\PMW TOX2.L Minimum Quality: 90

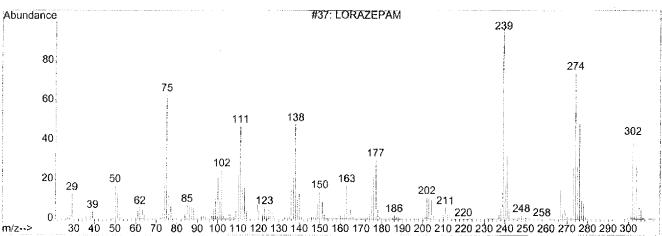
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Oual

1 8.49 C:\DATABASE\SLI.L

LORAZEPAM 000846-49-1





788988.D

Tue Jan 24 14:06:03 2012

Page 2 95

File Name : D:\SYSTEM4\05_18_11\788716.D

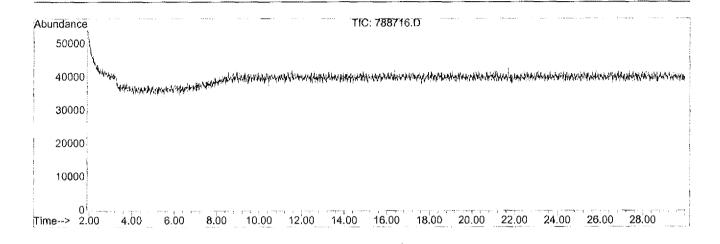
Operator : DJR

Date Acquired : 18 May 2011 17:07

Sample Name : BLANK

Submitted by

Vial Number : 1 AcquisitionMeth: WSCREEN Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

788716.D

Tue Jan 24 14:01:30 2012

Area Percent / Library Search Report

Information from Data File:

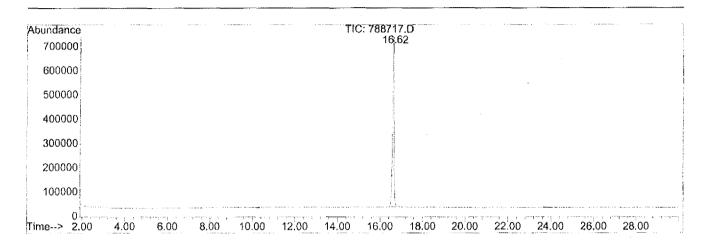
File Name : D:\SYSTEM4\05 18 11\788717.D

Operator : DJR

Date Acquired : 18 May 2011 17:41 Sample Name : BUPRENORPHINE STD

Submitted by

Vial Number : 17 AcquisitionMeth: WSCREEN Integrator : RTE



Ret. Time	Area	Area %	Ratio %
16.617	3350042	100.00	100.00

File Name : D:\SYSTEM4\05 18 11\788717.D

Operator : DJR

Date Acquired : 18 May 2011 17:41 Sample Name : BUPRENORPHINE STD

Submitted by :

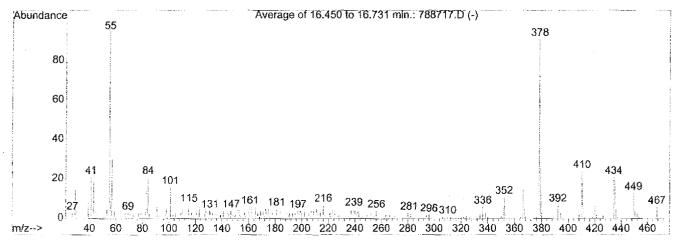
Vial Number : 17 AcquisitionMeth: WSCREEN Integrator : RTE

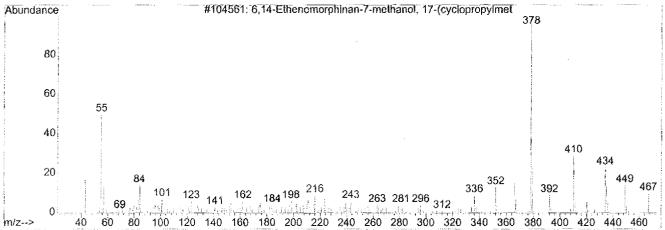
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID		CAS#	Qual
1	16.62	C:\DATABASE\NIST98.L			
		6,14-Ethenomorphinan-7-methanol,	17	052485-79-7	89
		6,14-Ethenomorphinan-7-methanol,	17	052485-79-7	80
		Dibenzo[a,c]pentacene		000216-08-0	43





788717.D

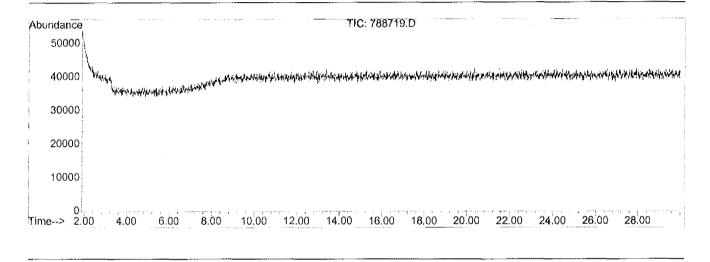
Tue Jan 24 14:01:34 2012

File Name : D:\SYSTEM4\05_18_11\788719.D

Operator : DJR

Date Acquired : 18 May 2011 18:49

Sample Name : BLANK
Submitted by : ASD
Vial Number : 1
AcquisitionMeth: WSCREEN
Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

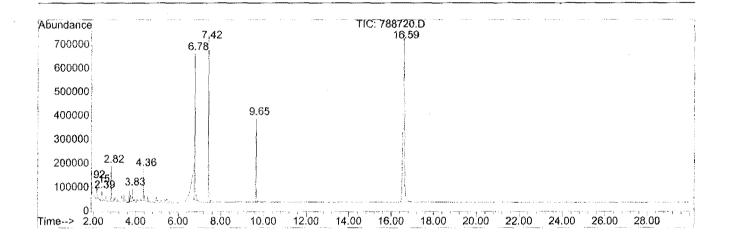
File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name

Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
4 010	100610	4 00	2 52	
1.918	133612	1.99	3.79	
2.151	146736	2.18	4.16	
2.390	105560	1.57	3.00	
2.821	200522	2.98	5.69	
3.826	102472	1.52	2.91	
4.358	149968	2.23	4.26	
6.775	981881	14.60	27.86	
7.415	802409	11.93	22.77	
9.653	576910	8.58	16.37	
16.592	3524287	52.41	100.00	

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : <u>18 May</u> 2011 19:23

Sample Name :

Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

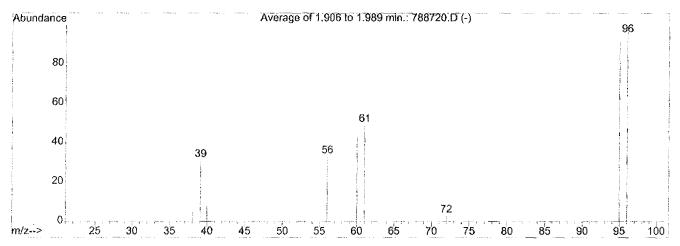
Search Libraries: C:\DATA

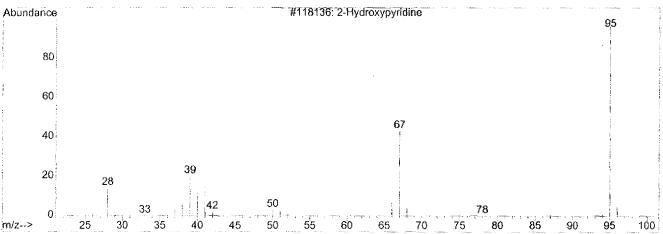
C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	1.92	C:\DATABASE\NIST98.L 2-Hydroxypyridine 2-Hydroxypyridine 2-Hydroxypyridine	000142-08-5 000142-08-5 000142-08-5	5 4 4





788720.D

Tue Jan 24 14:01:43 2012

File Name : D:\SYSTEM4\05_18_11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

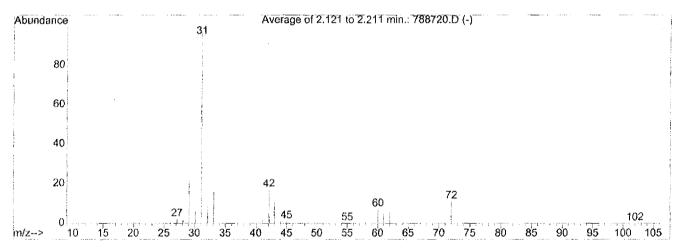
Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

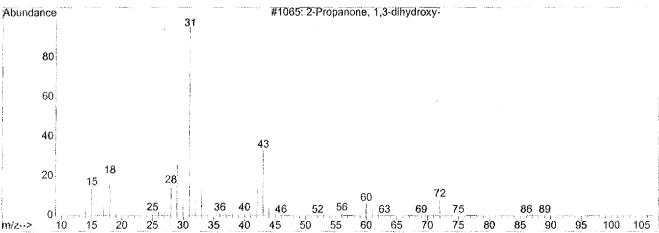
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
2	2.15	C:\DATABASE\NIST98.L 2-Propanone, 1,3-dihydroxy- Acetaldehyde, hydroxy- 1-Propanol	000096-26-4 000141-46-8 000071-23-8	83 42 9





788720.D

Tue Jan 24 14:01:44 2012

File Name : D:\SYSTEM4\05_18_11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

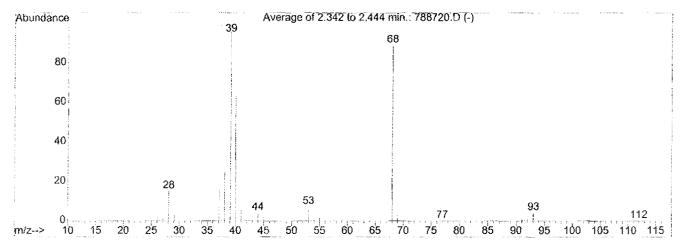
Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

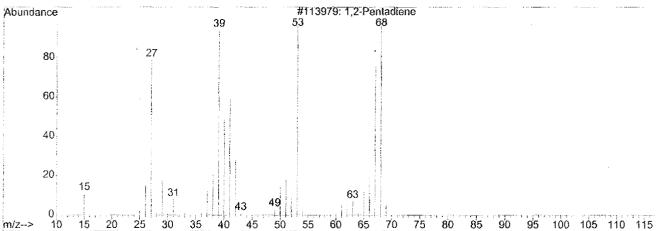
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW_TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

	PK#	RT	Library/ID	CAS#	Qual
-	3	2.39	C:\DATABASE\NIST98.L 1,2-Pentadiene	000591-95-7	83
			2H-Pyran-2-one	000504-31-4	83
			2H-Pyran-2-one	000504-31-4	83





788720.D

Tue Jan 24 14:01:45 2012

File Name : D:\SYSTEM4\05_18_11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

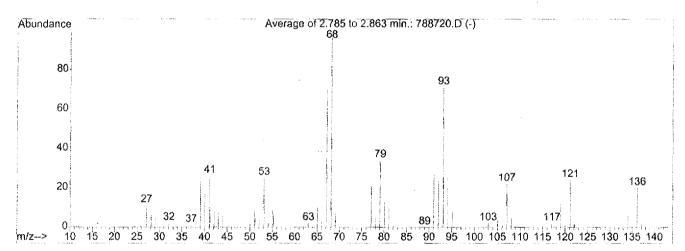
Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

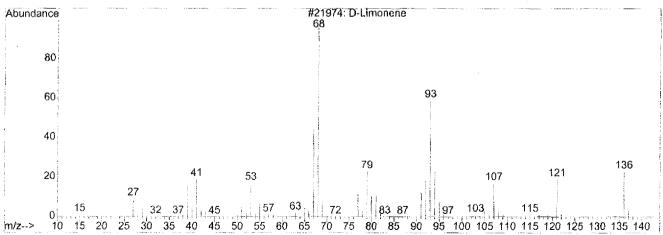
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
4	2.82	C:\DATABASE\NIST98.L D-Limonene Limonene D-Limonene	005989-27-5 000138-86-3 005989-27-5	95 94 93





788720.D

Tue Jan 24 14:01:45 2012

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

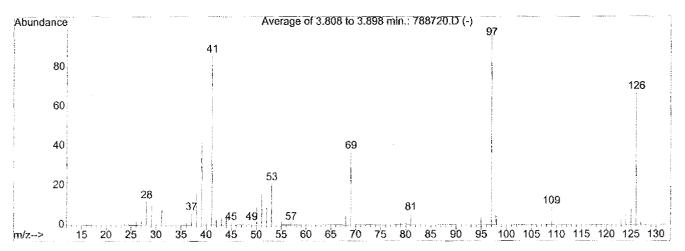
Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

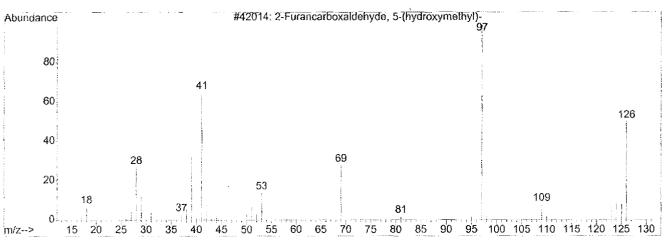
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID		CAS#	Qual
 5	3.83	C:\DATABASE\NIST98.L	- /1		
		2-Furancarboxaldehyde,			58
		2-Furancarboxaldehyde,			42
		<pre>2-Furancarboxaldehyde,</pre>	5-(hydroxyme	000067-47-0	42





788720.D

Tue Jan 24 14:01:46 2012

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

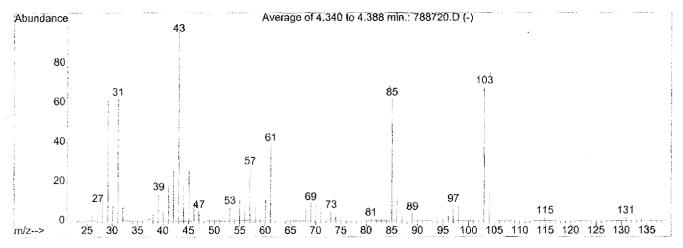
Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

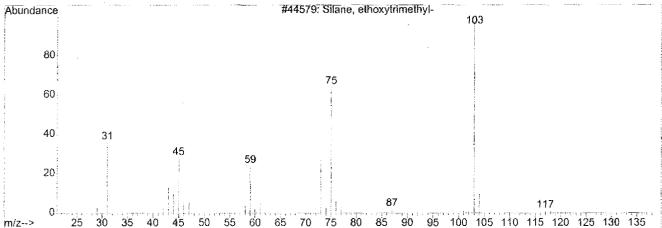
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
б	4.36	C:\DATABASE\NIST98.L Silane, ethoxytrimethyl- Isosorbide Dinitrate Hexyl isovalerate	001825-62-3 000087-33-2 010632-13-0	38 32 28





788720.D

Tue Jan 24 14:01:47 2012

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

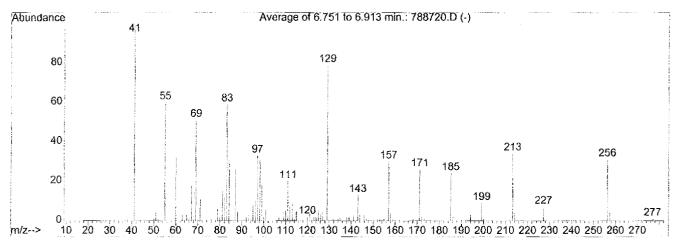
C:\DATABASE\PMW TOX2.L Minimum Quality: 90

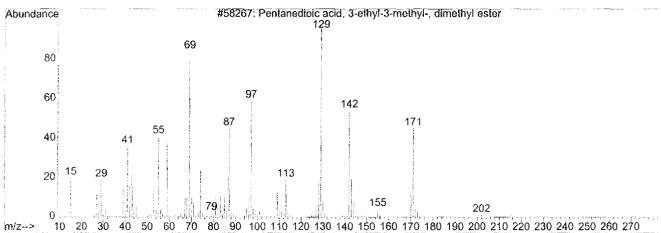
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

7 6.78 C:\DATABASE\NIST98.L

Pentanedioic acid, 3-ethyl-3-methyl 007445-19-4 23 Pentanedioic acid, 3-methyl-, dibut 056051-60-6 23 7,7,9,9-Tetrakis-hydroxymethyl-1,4- 1000193-69-8 16





788720.D

Tue Jan 24 14:01:48 2012

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

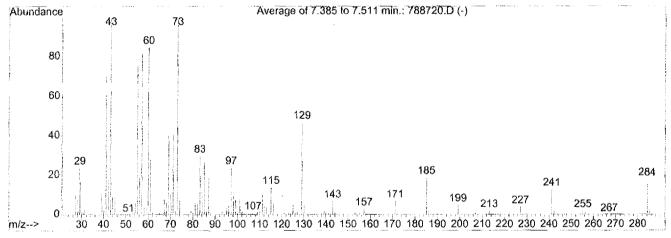
Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

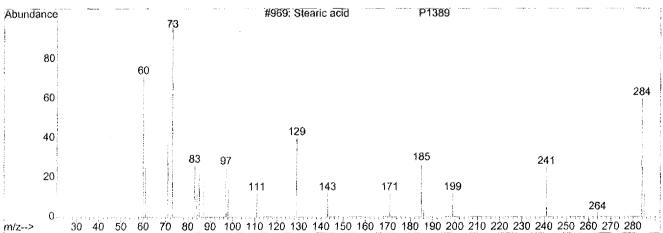
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
8	7.42	C:\DATABASE\PMW_TOX2.L Stearic acid Myristic acid Tridecane	000057-11-4 000544-63-8 000629-50-5	94 83 10





788720.D

Tue Jan 24 14:01:48 2012

File Name : D:\SYSTEM4\05_18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

9

Submitted by : ASD
Vial Number : 20
AcquisitionMeth: WSCREEN
Integrator : RTE

Search Libraries: C:\DATABASE\SLI

Minimum Quality: 90
Minimum Quality: 90

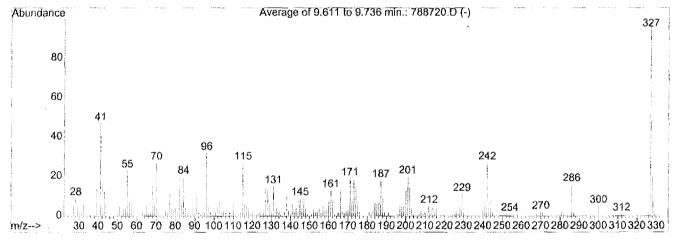
C:\DATABASE\PMW_TOX2.L

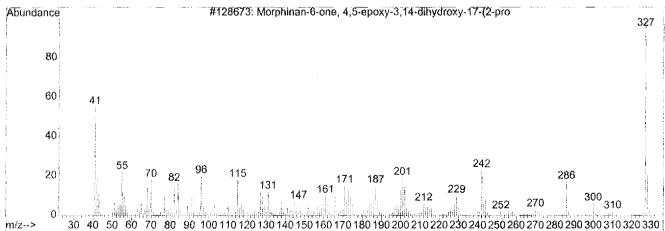
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

9.65 C:\DATABASE\NIST98.L

Morphinan-6-one, 4,5-epoxy-3,14-dih 000465-65-6 99 Morphinan-6-one, 4,5-epoxy-3,14-dih 000465-65-6 83 Morphinan-6-one, 4,5-epoxy-3,14-dih 000465-65-6 62





788720.D

Tue Jan 24 14:01:49 2012

File Name : D:\SYSTEM4\05 18 11\788720.D

Operator : DJR

Date Acquired : 18 May 2011 19:23

Sample Name :

Submitted by : ASD Vial Number : 20 AcquisitionMeth: WSCREEN

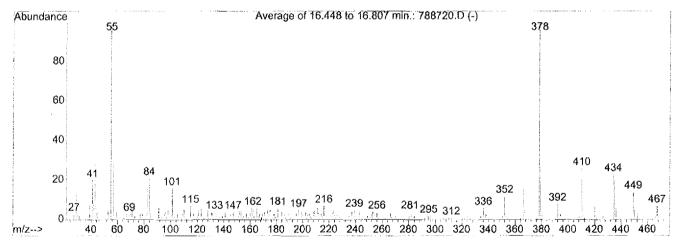
Integrator : RTE

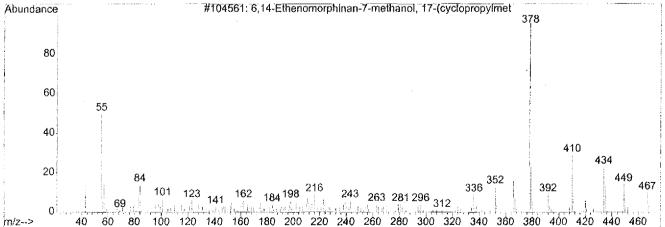
Search Libraries: C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW TOX2.L Minimum Quality: 90

C:\DATABASE\NIST98.L

	PK#	RT	Library/ID		CAS#	Qual
***************************************	10	16.59	C:\DATABASE\NIST98.L			
			6,14-Ethenomorphinan-7-methanol,			96
			6,14-Ethenomorphinan-7-methanol,	17	052485-79-7	96
			10-Methoxycamptothecin		019685-10-0	43





788720.D

Tue Jan 24 14:01:49 2012

Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\05 18 11\788728.D

Operator : DJR

Date Acquired : 18 May 2011 23:54

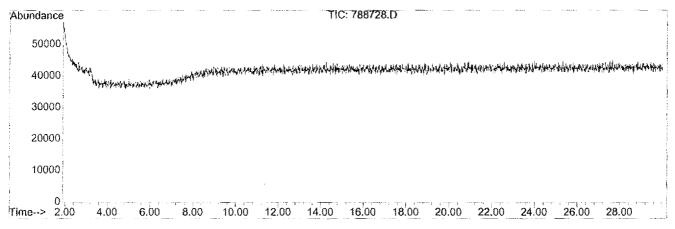
Sample Name : BLANK

Submitted by

Vial Number : 1

AcquisitionMeth: WSCREEN

Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

788728.D

Tue Jan 24 14:01:57 2012

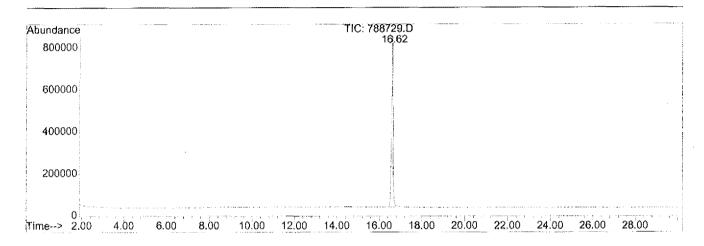
File Name : D:\SYSTEM4\05_18_11\788729.D

Operator : DJR

Date Acquired : 19 May 2011 00:28 Sample Name : BUPRENORPHINE STD

Submitted by

Vial Number : 17 AcquisitionMeth: WSCREEN Integrator : RTE



Ret. Time	Area	Area %	Ratio %
16.621	3937557	100.00	. 100.00

File Name : D:\SYSTEM4\05_18_11\788729.D

Operator : DJR

Date Acquired : 19 May 2011 00:28 Sample Name : BUPRENORPHINE STD

Submitted by :

Vial Number : 17 AcquisitionMeth: WSCREEN Integrator : RTE

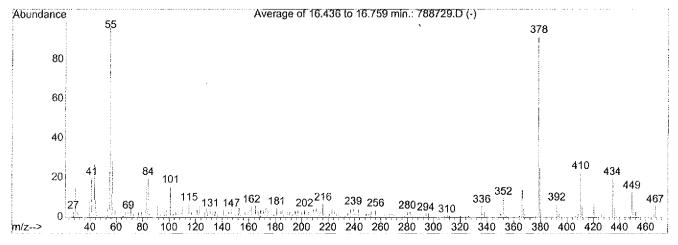
Search Libraries:

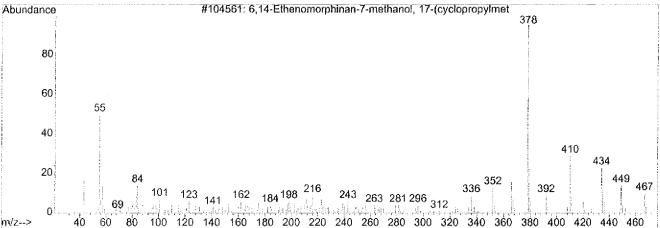
C:\DATABASE\SLI Minimum Quality: 90

C:\DATABASE\PMW TOX2.L

C:\DATABASE\NIST98.L

PK#	RT	Library/ID		CAS#	Qual
1	16.62	C:\DATABASE\NIST98.L			
		6,14-Ethenomorphinan-7-methanol,	17	052485-79-7	96
		6,14-Ethenomorphinan-7-methanol,	17	052485-79-7	43
		1.2.8.9-Dibenzpentacene		000227-09-8	43





788729.D

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Page 2

Minimum Quality: 90

File Name : D:\SYSTEM4\05 20 11\788932.D

Operator : DJR

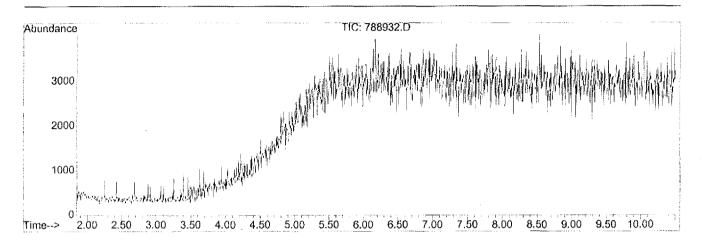
Date Acquired : 20 May 2011 17:09

Sample Name : BLANK

Submitted by :

Vial Number : 1
AcquisitionMeth: CLON

AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time

Area

Area

Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\05 20 11\788933.D

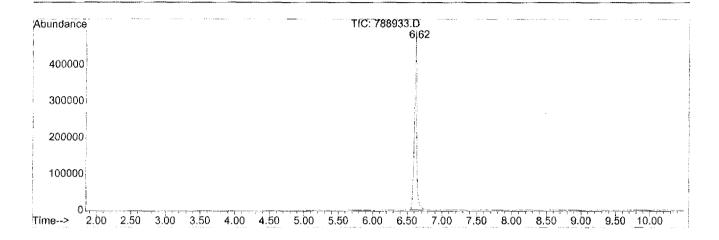
Operator : DJR

Date Acquired : 20 May 2011 17:23

Sample Name : CLONAZEPAM STD

Submitted by

Vial Number : 24 AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.620	1158680	100.00	100.00

File Name : D:\SYSTEM4\05 20 11\788933.D

Operator : DJR

Date Acquired 20 May 2011 17:23 Sample Name CLONAZEPAM STD

Submitted by

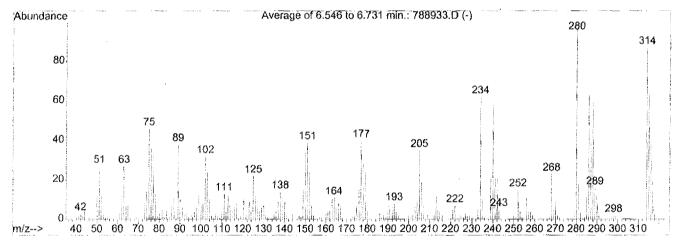
Vial Number 24 AcquisitionMeth: CLONAZ : RTE Integrator

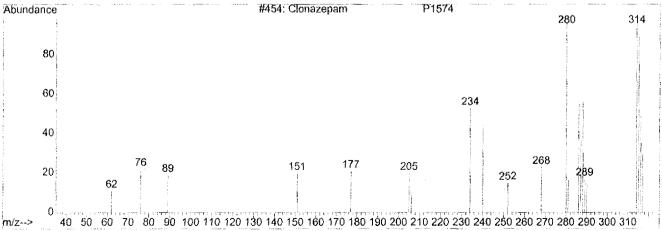
Search Libraries: C:\DATABASE\SLI.L

Minimum Quality: 95 Minimum Quality: 90 C:\DATABASE\PMW TOX2.L

C:\DATABASE\NIST98.L

PK#	RT	Library/ID	CAS#	Qual
1	6.62	C:\DATABASE\PMW_TOX2.L Clonazepam Clorazepate-M/artifact AC Estradiol 2AC	001622-61-3 000000-00-0 003434-88-6	98 2 1





788933.D

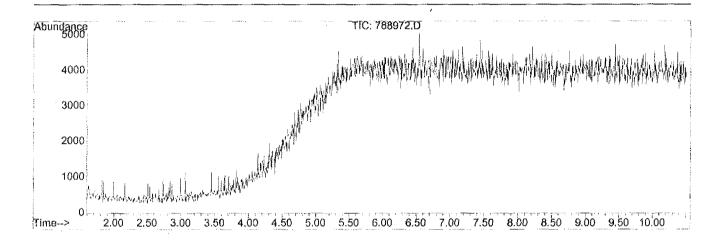
Tue Jan 24 14:04:35 2012

File Name : D:\SYSTEM4\05 20 11\788972.D

Operator : DJR

Date Acquired : 21 May 2011 5:13

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: WCLONAZ
Integrator : RTE



Ret. Time Area & Ratio %

NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

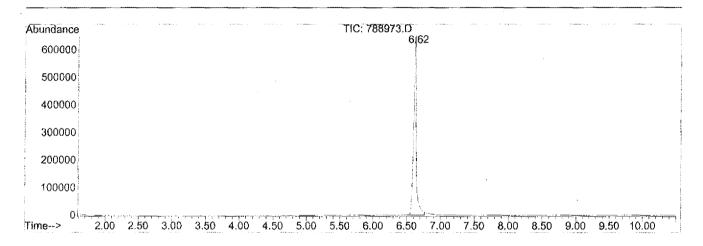
File Name : D:\SYSTEM4\05 20 11\788973.D

Operator : DJR

Date Acquired : 21 May 2011 5:27

Sample Name :

Submitted by : ASD
Vial Number : 73
AcquisitionMeth: WCLONAZ
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.620	1781796	100.00	100.00

788973.D

Tue Jan 24 14:04:55 2012

File Name : D:\SYSTEM4\05_20_11\788973.D

Operator : DJR

Date Acquired : 21 May 2011 5:27

Sample Name

Submitted by : ASD
Vial Number : 73
AcquisitionMeth: WCLONAZ
Integrator : RTE

Search Libraries:

C:\DATABASE\SLI.L

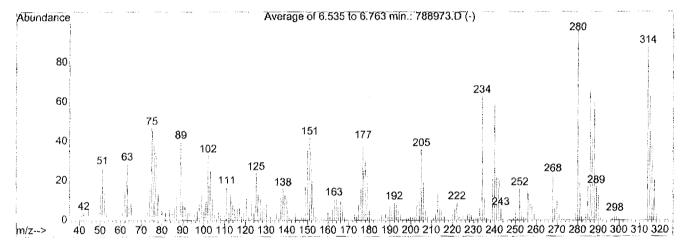
Minimum Quality: 95

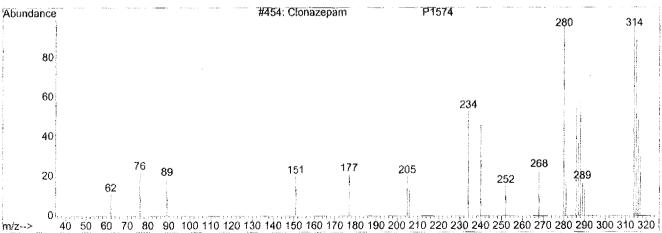
C:\DATABASE\PMW_TOX2.L

C:\DATABASE\NIST98.L

Minimum Quality: 90

PK#	RT	Library/ID	CAS#	Qual
1.	6.62	C:\DATABASE\PMW_TOX2.L Clonazepam	001622-61-3	98
		Clorazepam Clorazepate-M/artifact AC Estradiol 2AC	000000-00-0 003434-88-6	9





788973.D

Tue Jan 24 14:04:56 2012

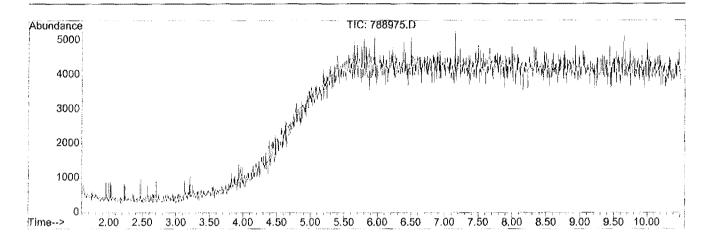
File Name : D:\SYSTEM4\05_20_11\788975.D

Operator : DJR

Date Acquired : 21 May 2011 5:55

Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: WCLONAZ

Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

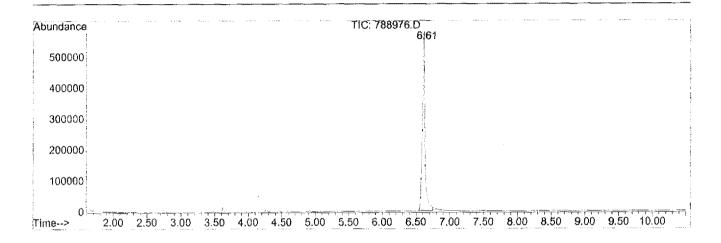
Operator : D:\SYSTEM4\05_20_11\788976.D

: DJR

Date Acquired : 21 May 2011 6:09

Sample Name

Submitted by : ASD Vial Number 76 AcquisitionMeth: WCLONAZ : RTE Integrator



Ret. Time	Area	Area %	Ratio %
6.613	1536162	100.00	100.00

File Name : D:\SYSTEM4\05 20 11\788976.D

Operator : DJR

Date Acquired : 21 May 2011 6:09

Sample Name :

Submitted by : ASD
Vial Number : 76
AcquisitionMeth: WCLONAZ
Integrator : RTE

1

Search Libraries: C:\DATABASE\SLI.L

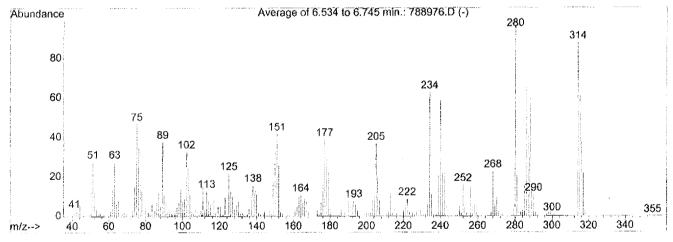
NSLI.L Minimum Quality: 95 New TOX2.L Minimum Quality: 90

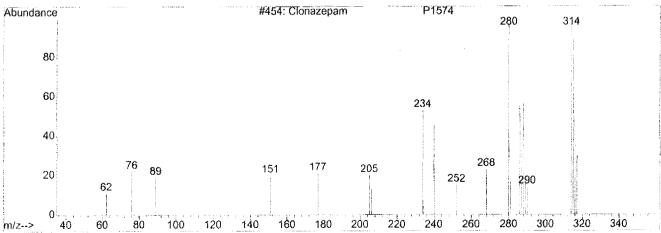
C:\DATABASE\PMW_TOX2.L
C:\DATABASE\NIST98.L

PK# RT Library/ID CAS# Qual

6.61 C:\DATABASE\PMW TOX2.L

Clonazepam 001622-61-3 98 Clorazepate-M/artifact AC 000000-00-0 9 Estradiol 2AC 003434-88-6 1





788976.D

Tue Jan 24 14:05:08 2012

Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM4\05_20_11\788978.D

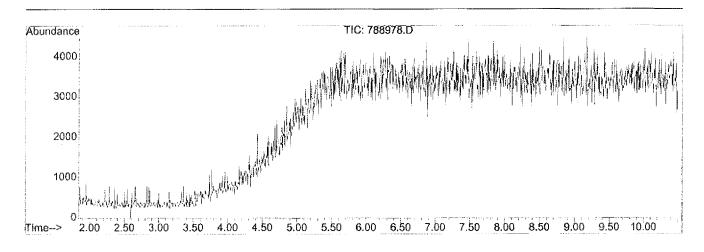
Operator : DJR

Date Acquired : 21 May 2011 6:36

Sample Name : BLANK

Submitted by

Vial Number : 2 AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time Area Area % Ratio %

NO INTEGRATED PEAKS

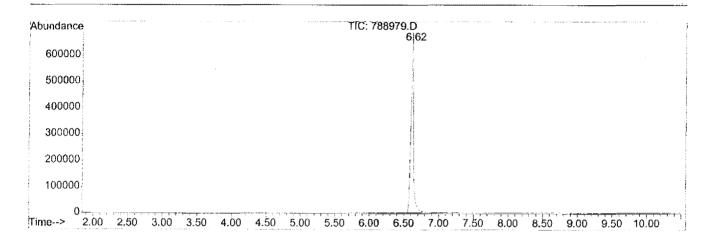
File Name : D:\SYSTEM4\05_20_11\788979.D

Operator : DJR

Date Acquired : 21 May 2011 6:50 Sample Name : CLONAZEPAM STD

Submitted by :

Vial Number : 24 AcquisitionMeth: CLONAZ Integrator : RTE



Ret. Time	Area	Area %	Ratio %
6.619	1757264	100.00	100.00

File Name : D:\SYSTEM4\05_20_11\788979.D

Operator : DJR

Date Acquired : 21 May 2011 6:50 Sample Name : CLONAZEPAM STD

Submitted by :

Vial Number : 24 AcquisitionMeth: CLONAZ Integrator : RTE

Search Libraries: C:\DATABASE\SLI.L

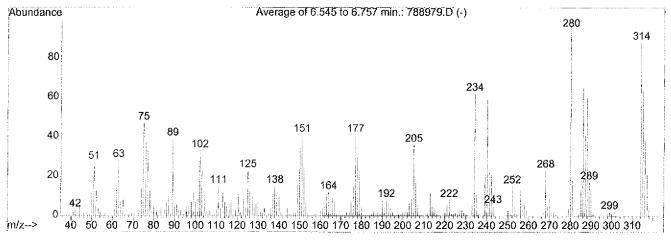
Minimum Quality: 95

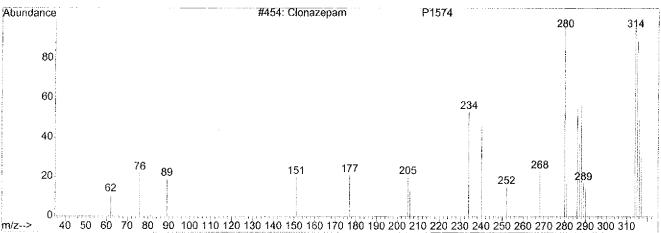
C:\DATABASE\PMW_TOX2.L

Minimum Quality: 90

C:\DATABASE\NIST98.L

 PK#	RT	Library/ID	CAS#	Qual
1	6.62	C:\DATABASE\PMW_TOX2.L		
		Clonazepam	001622-61-3	98
		Clorazepate-M/artifact AC	000000-00-0	9
		Estradiol 2AC	003434-88-6	1





788979.D

Tue Jan 24 14:05:21 2012